

## IN THE CLAIMS

1. (currently amended) An electrode brain probe assembly, comprising:

- 5           a) a flexible polymeric [layer] substrate;  
          b) a set of electrical contacts and  
              conductors on said flexible polymeric  
              [layer] substrate; and  
10          c) said electrode brain probe assembly having  
              a distal end, and being greater than 5 mm  
              long, less than 5 mm wide and less than  
              1 mm thick.

2. (original) The assembly of claim 1 further  
15 being pointed at said distal end.

3. (original) The assembly of claim 1 further  
defining a through hole at said distal end, thereby  
permitting the use of a placement device to push said  
20 bio-probe into delicate soft tissue[, such as brain  
tissue].

4. (original) The assembly of claim 1 wherein  
said flexible polymer substrate is comprised of a layer  
25 of polyether sulfone.

5. (original) The assembly of claim 1 wherein  
said flexible polymer substrate is comprised of a layer  
of polyimide.

30

6. (currently amended) The assembly of claim 1  
wherein said [conductive material is] conductors are made  
of a metal.

7. (currently amended) The assembly of claim 1 wherein said [conductive material is] conductors are made of a conductive polymer.

5                   8. (original) The assembly of claim 1 wherein said flexible polymer substrate is comprised of a layer of liquid crystal polymer.

                  9. (new) The assembly of claim 3 wherein said  
10 delicate soft tissue is brain tissue.